

# Opening remarks : Highlighting the significance of the workshop



We are  
here



I came  
from here

**Toshimichi Otsubo**  
Hitotsubashi University  
Chair of ILRS Governing Board

 Greetings from the GB Chair

Significance of this workshop

New ILRS schemes for planning future workshops

→ Greetings from the GB Chair { Asian  
New generation  
Not from a station

Significance of this workshop

New ILRS schemes for planning future workshops

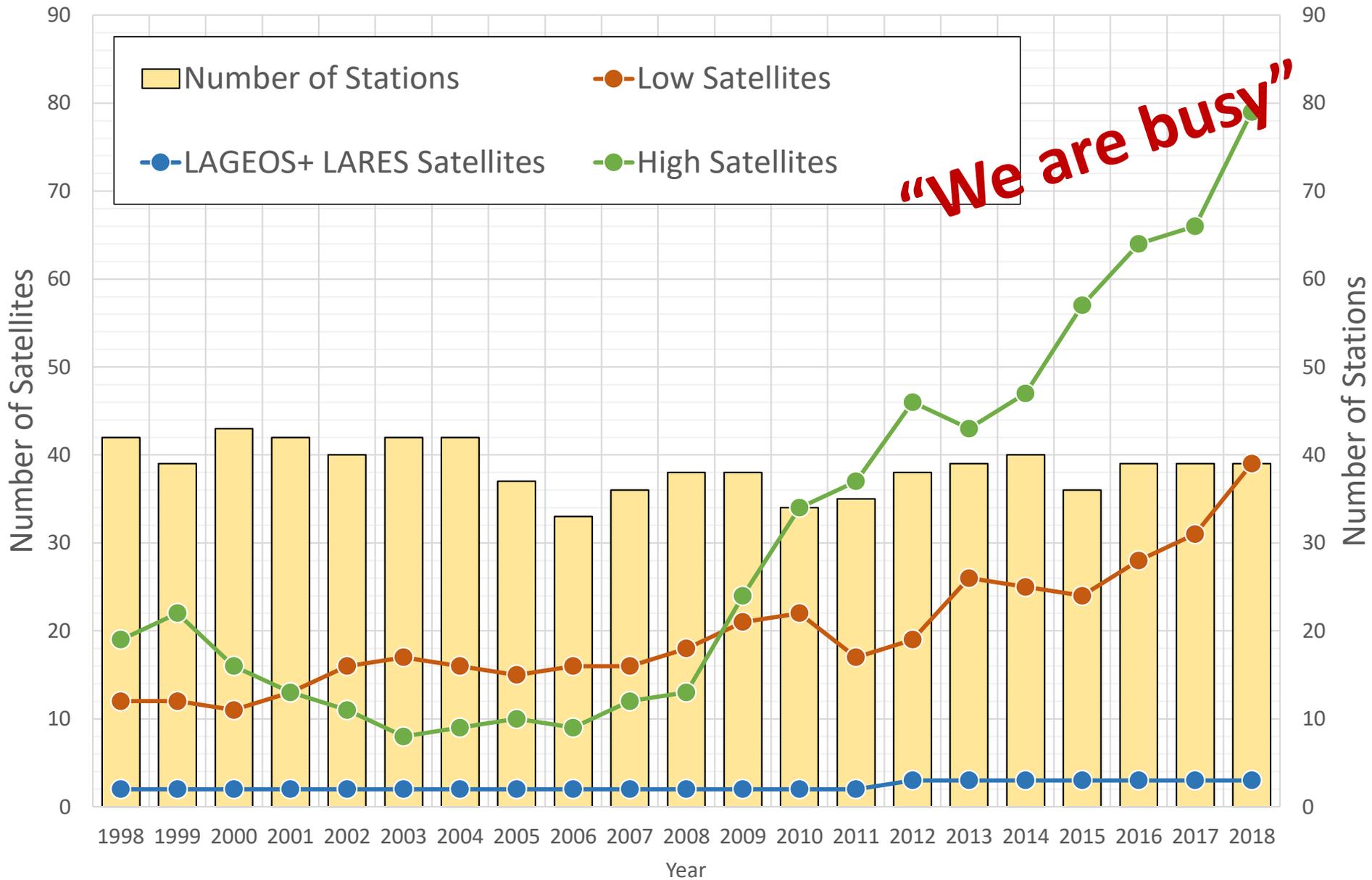
→ Greetings from the GB Chair { Global  
Next generation  
SLR for everyone

Significance of this workshop

New ILRS schemes for planning future workshops







Greetings from the GB Chair

 Significance of this workshop

Just one example of  
how to enjoy this week

New ILRS schemes for planning future workshops



ILRS TECHNICAL WORKSHOP 2019

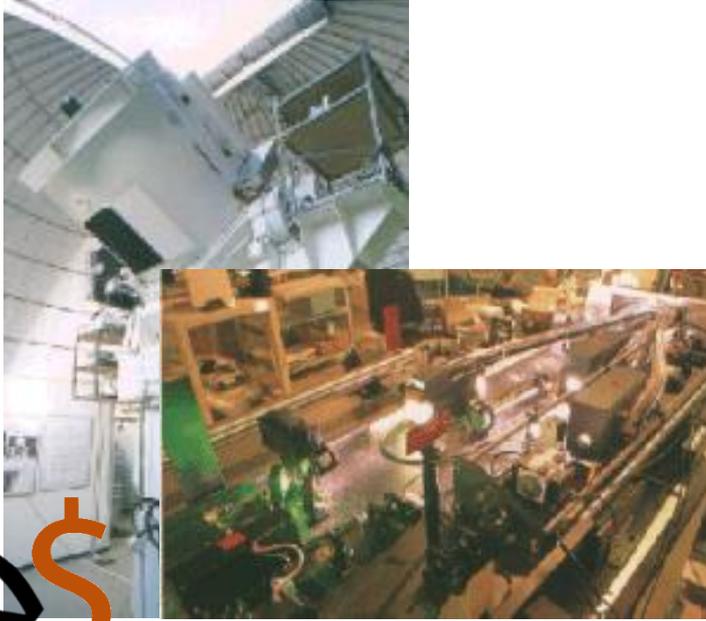
Stuttgart 21<sup>st</sup> - 25<sup>th</sup> October

*Laser ranging: To improve  
**economy**,  
performance, and  
adoption for new applications*

# Low Cost? More Stations!

Tour to  
Uhlandshöhe

Session 4 includes  
Low cost system



- SLR: Multi-million EUR/USD  
→ 40 stations worldwide
- GNSS: 1% of SLR cost  
→ 18,000 stations worldwide



What will happen?

## Key points/questions:

mm-level single-shot RMS is not mandatory.  
A non-Coude system (fiber or telescope-mountable laser) can do?

# Other key elements for boosting SLR data/stations

- Automation & Safety

Session 5 is for  
Safety

Automation  
here and there

- Multi-purpose system

Session 3 is for  
New Applications

- Observation efficiency

Session 2 includes  
Efficient operation

Session 4 includes  
Scheduling for kHz

- System upgrades

In some talks and  
many posters

Greetings from the GB Chair

Significance of this workshop

- ➔ New ILRS schemes for planning future workshops
  - Interested in hosting 2021 or 2022 workshop?
  - Look at the ILRS website & find “guidelines for...”.
  - More on Friday afternoon.

## Recent News

## Meetings

## Organization

## Terms of Reference

## Membership

## ILRS Workshops

## Publications &amp; Reports

## ILRS Annual Reports

## Meeting Reports

## Bibliography

## ILRS Workshops

## Links

## Early History of ILRS

## Quick Links

- › [Contact ILRS](#)
- › [Join ILRS](#)
- › [Network Map](#)
- › [Cite the ILRS](#)
- › [List of Missions](#)

## Guidelines for Planning International Workshops on Laser Ranging and ILRS Technical/Specialized Workshops [PDF](#)

The ILRS sponsors International Workshops on Laser Ranging (IWLR) which are typically held every two years. In addition, the ILRS organizes focused technical or specialized workshops in years between the International Workshops on Laser Ranging. More information about these workshops, as well as links to their dedicated websites, is available on the ILRS website at:

<https://ilrs.gsfc.nasa.gov/about/reports/workshop/index.html>

### International Workshop on Laser Ranging (IWLR)

- An IWLR should typically be held every two years (as practicable).
- The host of a future IWLR should be selected at the previous IWLR by vote of the meeting attendees; the ILRS Central Bureau will send out a notice three months prior to this meeting so that possible candidates can organize their proposals for presentation prior to the vote.
- The IWLR host is expected to coordinate/organize the posting of presentations, workshop and splinter meeting summaries/actions, and proceedings for posting on the ILRS website.
- The ILRS Standing Committees (SCs) and Governing Board (GB) will hold splinter meetings at the workshop and provide summary material at the closing session of the workshop.

### Technical/Specialized Workshop

- These workshops may be held in the intervening years between the IWLRs; such workshops should be on focused topics of current importance for planning purposes.
- The ILRS CB will issue a request for proposals to host a future workshop 1.5 to 2 years in advance. Interested organizations should submit their response to the ILRS CB for review followed by final approval by the ILRS GB. After that time, the host organization selected by the Governing Board is requested to present their workshop plan at an IWLR of the previous year; alternatively, the GB may accept a proposal for a workshop with shorter notice.
- As with the IWLR, the organizer of these workshops should coordinate the posting of presentations from the meeting as well as summary reports with key issues and recommendations; proceedings can be proposed for posting.

### Schedule for future ILRS workshops (as of October 2019):

- 2020: 22<sup>nd</sup> International Workshop on Laser Ranging, Kunming, China in October
  - Presentation on plans for this workshop to be presented at the 2019 ILRS Technical Workshop
- 2021: Technical/Specialized Workshop, location/timeframe TBD
  - October 2019: begin search for host/location
  - January 2020: close acceptance of proposals and seek vote from GB
  - March 2020: notify proposed host and announce location to community
  - October 2020: presentation from LOC in Kunming (22<sup>nd</sup> IWLR)
- 2022: 23<sup>rd</sup> International Workshop on Laser Ranging, location/timeframe TBD
  - July 2020 (3 months before the IWLR in Kunming): begin search for host/location
  - October 2020 (at the IWLR in Kunming): presentation by host candidates and vote by attendees

# Timeline for 2020-2022 workshops

2020: 22<sup>nd</sup> International Workshop on Laser Ranging, Kunming, China in October

- Presentation on plans for this workshop to be presented at the 2019 ILRS Technical Workshop

2021: Technical/Specialized Workshop, location/timeframe TBD

- October 2019: begin search for host/location
- January 2020: close acceptance of proposals and seek vote from GB
- March 2020: notify proposed host and announce location to community
- October 2020: presentation from LOC in Kunming (22<sup>nd</sup> IWLR)

2022: 23<sup>rd</sup> International Workshop on Laser Ranging, location/timeframe TBD

- July 2020 (3 months before the IWLR in Kunming): begin search for host/location
- October 2020 (at the IWLR in Kunming): presentation by host candidates and vote by attendees
- 2021 Technical/Specialized Workshop: presentation from LOC

Greetings from the GB Chair

Significance of this workshop

New ILRS schemes for planning future workshops

**Thank you.**

**Have a great time in Stuttgart.**